

Product Information Sheet

Temperature Sensor



Our range of science experiment kits will equip you with all you need to carry out each of the practical experiments included in your LJ Create science program.

The kits can be used for teacher demonstration, individual student, or group activities.

The Data Logging equipment has been produced for ease of use in a wide range of science and technology applications.

An ideal replacement for a standard glass thermometer with the added advantage of recording temperature changes over time.

- The sensor is a thermistor encased in a high quality stainless steel tube. The steel tube has high heat conductivity making it responsive to temperature changes.
- Tube diameter is 3mm, length 200mm.
- Thermistor sensor is approximately 3mm behind the end tip of the steel tube.
- PVC cable insulation working range -10 – 85oC.
- 50uS intersample data collection.

The sensor can be used in a range of teaching applications, including:

- Cooling rates.
- Calorimetry.
- Greenhouse effect.
- Insolation (temperature vs. light).
- As a digital replacement for standard thermometer.

Sensor Specifications:

- Range: -30 to 110 °C
- Accuracy: ± 0.3 °C between 0 to 70 °C, rising to ± 0.6 °C at extremes of the range
- Resolution: 0.1 °C

Examples of some extension and advanced ideas include:

- Thermotitration.
- Long term monitoring of an environment.

Items Included:

- Temperature Sensor

Other Items Required:

- Data logger (520-01)
- LJ Create Science Content and Computer

General Information:

Packed Volume: Approx 0.0001 m³

Packed Weight: Approx 0.01 kg

Order Code: 520-09

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For more information visit www.ljcreate.com